

## **at1121exam\_practice EXAMPLE! DO NOT HAND IN FOR CREDIT (v17)**

- If you are looking for a practice exam that you can hand in for credit:

<https://chadworley.github.io/algtwo2026/u04/1121/at1121exam/at1121exam.html>

### **Question 1**

Simplify the radical expressions.

$$\sqrt{18}$$

$$\sqrt{98}$$

$$\sqrt{63}$$

### **Question 2**

Find all solutions to the equation below:

$$\frac{(x+7)^2 + 6}{2} = 53$$

**Question 3**

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 12x = 85$$

**Question 4**

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 + 30x + 81$$

Express the function in **vertex form** and identify the **location** of the vertex.